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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/808,223

03/23/2004

Srivatsa Krishnaswamy

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EXAMINER

PANTOLIANO JR, RICHARD

ART UNIT

PAPER NUMBER

2194

MAIL DATE

DELIVERY MODE

09/10/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/808,223

Applicant(s)

KRISHNASWAMY ET AL.

Examiner

Richard Pantoliano Jr

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 June 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

WILLIAM THOMPSON
SUPERVISOR, PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

1. This is the initial office action for Application# **10/808,223** filed on **23 March 2004**. **Claims 1-26** are currently pending and have been considered below.

Claim Objections

2. **Claim 16** is objected to because of the following informalities: line 2, "receive" should be "received". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. **Claims 1-26** are rejected under 35 U.S.C. 102(e) as being anticipated by Kotnur et al (US PGPub: 2004/0015835), hereinafter Kotnur.

5. As to **Claim 1**, Kotnur discloses the invention substantially as claimed including the method of data object transformation, the method including:

a) receiving a message from a communications line, the message including one or more data objects of a first object type, wherein the message is in a first

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communications format (para. [0033]) (The receiving a the java class to convert to a distributed object meets this limitation);

b) converting the message from the first communications format to a second communications format (para. [0033], [0039]-[0047]);

c) converting the one or more data objects from the first object type to a second object type, wherein the one or more data objects are converted using a first set of one or more transformation classes, each of the one or more transformation classes generated using mapping rules (para. [0033], [0039]-[0047]); and

d) transmitting the converted one or more second object type data objects to an application (para. [0033]).

6. As to **Claim 2**, Kotnur further teaches wherein the communications line is messaging middleware, and the first communications format is a middleware-dependent format, and the second communications format is a middleware-independent format (para. [0028]-[0032]).

7. As to **Claim 3**, Kotnur further teaches wherein each of the one or more data objects is a Java object (para. [0028]-[0032]).

8. As to **Claim 4**, Kotnur further teaches wherein the first object type is a domain object model type and the second object type is an application-specific object model

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type (para. [0033], [0039]-[0047]) (The conversion of objects from local objects to distributed objects meets this claim limitation).

9. As to **Claim 5**, Kotnur further teaches:

a) registering the application with the communications line (para. [0040]-[0057]);

and

b) transmitting high-level function calls to the application (para. [0040]-[0057]).

10. As to **Claim 6**, Kotnur further teaches:

a) receiving a second message from the application, the second message including one or more data objects of the second object type (para. [0033]);

b) converting the one or more data objects from the second object type to the first object type, wherein the one or more data objects are converted using a second set of one or more of the transformation classes (para. [0033]);

c) generating a communications line dependent message, the communications line dependent message including the converted one or more first object type data objects (para. [0033], [0039]-[0047]); and

d) transmitting the communications line dependent message to the communications line (para. [0033]).

11. As to **Claims 7-10**, these claims are rejected for the same reasoning as applied to **Claims 2-5**, respectively.

12. As to **Claim 11**, Kotnur discloses the invention substantially as claimed, the method including:

a) generating a first object model and a second object model, the first object model including a plurality of data objects of a first object type, and the second object model including a plurality of data objects of a second object type (para. [0033], [0039]-[0047]);

b) storing the first and second object models in one or more memories (para. [0033], [0039]-[0047]);

c) generating transformation mapping rules (para. [0033], [0039]-[0047]);

d) generating a plurality of transformation classes using the first and second object models and the transformation mapping rules (para. [0033], [0039]-[0047]);

e) receiving one or more data objects format (para. [0033]) (The receiving a the java class to convert to a distributed object meets this limitation);

f) converting the received one or more data objects, using the transformation classes, from:

(1) the first object type to the second object type (para. [0033], [0039]-[0047]); or

(2) from the second object type to the first object type; and

g) transmitting the converted one or more data objects (para. [0033]).

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13. As to **Claim 12**, Kotnur further teaches wherein each of the one or more data objects is a Java object (para. [0028]-[0032]).

14. As to **Claim 13**, Kotnur further teaches wherein the first object model is a domain object model and the second object model is an application-specific object model (para. [0028]-[0032]).

15. As to **Claim 14**, Kotnur further teaches wherein the first object type is a domain object model type and the second object type is an application-specific object model type (para. [0028]-[0032]).

16. As to **Claim 15**, Kotnur further teaches wherein the one or more data objects are receive from messaging middleware (para. [0028]-[0032]).

17. As to **Claim 16**, Kotnur further teaches wherein the one or more data objects are received from an application, the application coupled to a communications line (para. [0028]-[0032]).

18. As to **Claims 17-21**, being directed to the system implementing the methods of **Claims 1-4 and 6**, these claims are rejected for the same reasoning as applied to **Claims 1-4 and 6**.

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19. As to **Claims 22-25**, being directed to the system implementing the methods of **Claims 2 and 11-16**, these claims are rejected for the same reasoning as applied to **Claims 2 and 11-16**.

20. As to **Claim 26**, being directed to the apparatus implementing the method of **Claim 11**, this claim is rejected for the same reasoning as applied to **Claim 11**.

Conclusion

21. Examiner has cited particular columns and line numbers and/or figures in the references as applied to the claims for the convenience of the applicant. Applicant is reminded that rejections are based on references as a whole and not just the cited passages. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the cited art or disclosed by the examiner.

22. The prior art made of record on the P.T.O. 892 that has not relied upon is considered pertinent to applicant's disclosure. Careful consideration of the cited art is required prior to responding to this Office Action, see 37 C.F.R. 1.111(c).


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23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Pantoliano Jr whose telephone number is (571) 270-1049. The examiner can normally be reached on Monday-Thursday, 8am - 4 pm EST.

24. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on (571)272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

25. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RP
09/04/2007


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